5

10

15

20

## **CLAIMS**

## What is claimed is:

- 1. A method of suppressing a respiratory syncytial virus (RSV) infection in an individual who has been exposed to RSV, comprising administering a composition comprising a polynucleotide comprising an immunostimulatory sequence (ISS) to said individual, wherein the ISS comprises the sequence 5'-C, G-3', wherein an RSV antigen is not administered in conjunction with administration of said composition, and wherein said composition is administered in an amount sufficient to suppress a RSV infection.
- 2. The method of claim 1, wherein the ISS comprises the sequence 5'-T, C, G-3'.
- 3. The method of claim 1, wherein the ISS comprises the sequence 5'-purine, purine, C, G, pyrimidine, pyrimidine, C, G-3' or 5'-purine, purine, C, G, pyrimidine, pyrimidine, C, C-3'.
- 4. The method of claim 3, wherein the ISS comprises a sequence selected from the group consisting of 5'-AACGTTCC-3', 5'-AACGTTCG-3', 5'-GACGTTCG-3'.
- 5. The method of claim 1, wherein the ISS comprises the sequence 5'-TGACTGTGAACGTTCGAGATGA-3' (SEQ ID NO:1).
  - 6. The method of claim 1, wherein the individual is a mammal.
  - 7. The method of claim 1, wherein administration is at a site of exposure.
  - 8. The method of claim 7, wherein the site of exposure is respiratory mucosa.
  - 9. The method of claim 7, wherein the site of exposure is the nasal passages.

- 10. The method of claim 1, wherein the suppression comprises a reduction of RSV titer in a biological sample from said individual.
- 11. A kit for use in suppressing a respiratory syncytial virus (RSV) infection in an individual infected with or exposed to RSV, comprising:

a composition comprising a polynucleotide comprising an immunostimulatory sequence (ISS), wherein the ISS comprises the sequence 5'-C, G-3' and wherein said kit does not comprises an RSV antigen; and

instructions for administration of said composition to an individual infected with or exposed to RSV to suppress RSV infection.

- 12. The kit of claim 11, wherein the ISS comprises the sequence 5'-T, C, G-3'.
- 13. The kit of claim 11, wherein the ISS comprises the sequence 5'-purine, purine, C, G, pyrimidine, Pyrimidine, C, G-3' or 5'-purine, purine, C, G, pyrimidine, pyrimidine, C, C-3'.
- 14. The kit of claim 13, wherein the ISS comprises a sequence selected from the group consisting of 5'-AACGTTCC-3', 5'-AACGTTCG-3', 5'-GACGTTCC-3' and 5'-GACGTTCG-3'.
- 15. The kit of claim 11, wherein the ISS comprises the sequence 5'-TGACTGTGAACGTTCGAGATGA-3' (SEQ ID NO:1).

10

15